

# THE METAL BOOK



U.S. ARMY MATERIEL COMMAND

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# Introduction

**The U.S. Army Materiel Command (AMC)** is the Army's premier provider of materiel readiness – technology, acquisition support, materiel development, logistics power projection, and sustainment – to the total force, across the spectrum of joint military operations. If a Soldier shoots it, drives it, flies it, wears it, or eats it, AMC provides it.

The command's complex missions range from development of sophisticated weapon systems and cutting-edge research, to maintenance and distribution of spare parts.

To develop, buy and maintain materiel for the Army, AMC works closely with Program Executive Officers, the Army Acquisition Executive, industry and academia, other military services and government agencies.

The command's main effort is to achieve the development, support, and sustainment of the future force in this decade. At the same time, AMC is key to supporting and sustaining the interim force and to sustaining and recapitalizing the current force. Its maintenance depots restore weapon systems needed as the Army makes its way to full transformation. The command's overhaul and modernization efforts are enhancing and upgrading major weapon systems – not just making them like new, but inserting technology to make them better and more reliable.

AMC is headquartered in Fort Belvoir, Va., and is located in 149 locations worldwide, including 45 states and 38 countries. Manning these organizations is a work force of 50,000 dedicated military and civilian employees, many with highly developed specialties in weapons development and logistics.

## Purpose

This book was designed to educate individual organizations, commanders, and program managers about the organic capabilities that reside within AMC. Each depot, arsenal and ammunition plant is highlighted, providing the reader a snapshot of AMC's industrial base to include the facilities' mission, capabilities, partnerships with industry, and contact information.

Facilities with an asterisk located next to their name were affected by the 2005 BRAC decision-- the site will either close or the capabilities will be impacted. Refer to the history section of each site for more information.

AMC facilities may partner with the private sector and other parts of the public sector under multiple legal authorities. Partnerships range from direct sales, to public-private teaming and work share arrangements, to leases of facilities or equipment. For additional information on Public-Private Partnerships, please contact us at [Partnerships@hqamc.army.mil](mailto:Partnerships@hqamc.army.mil).

# The Industrial Base

# Anniston Army Depot \*

## Anniston, Alabama



### Mission

Provide industrial and technical support to joint services for repair and overhaul of combat vehicles, artillery systems, bridge systems, small arms, and secondary components. Anniston Army Depot (ANAD) is the premier DoD Center for Industrial and Technical Excellence and is capable of overhaul and refurbishment of all the aforementioned systems. Major tenants of the installation include Anniston Defense Munitions Center, Anniston Chemical Activity and Defense Distribution Depot Anniston.

### History

Anniston Ordnance Depot (AOD) was constructed in 1941 with storage igloos, ammunition magazines, warehouses and several administrative buildings. Nearly a decade later, AOD began an assignment to overhaul and repair combat vehicles. The maintenance and storage missions began in 1963 under the name Anniston Army Depot. ANAD began repair and overhaul of the M1 Abrams Main Battle Tank in the mid 1980s and was the recipient of towed and self-propelled artillery and light combat vehicle missions as a result of BRAC 1995. Production of Stryker vehicles began in 2001 with commercial partner General Dynamics. ANAD is transforming with the Army and utilizing innovative initiatives including but not limited to workforce revitalization, Lean/Six Sigma, and partnering with industry.

*\* The capabilities of this installation will be impacted in accordance with BRAC 2005.*

### Installation Overview

ANAD is located on 15,279 acres in Calhoun County. ANAD has 8,971,016 square feet of buildings and plant replacement value of approximately \$1.6 billion. To the north, the installation is bordered by Pelham Range which is a 20,000-acre training range operated by the Alabama Army National Guard. There are no encroachment issues for the installation. With a \$1.1 billion economic impact, ANAD is a major economic engine for the region.

### Contact Information

Anniston Army Depot  
ATTN: AMSTA-AN-CO  
7 Frankford Avenue  
Anniston, AL 36201-4199  
256-235-7501 (COM), 571-7501 (DSN)  
<http://www.anad.army.mil> (Web site)

### Capabilities

The most valuable resource existing at ANAD is the multi-skilled workforce that would take decades to replace. The infrastructure is capable of repeated 70-ton combat vehicle traffic and has heavy lift capability within key facilities. ANAD has a live firing range capable of firing weapons up to 155mm.

### Capabilities at a Glance

Combat vehicles (Except Bradley and Multiple Launch Rocket System)  
Overhaul/repair  
Artillery overhaul/repair  
Small Arms overhaul/repair  
Bridging systems overhaul/repair  
Worldwide support

### Partnerships

General Dynamics Land Systems- Stryker Brigade Combat Team, FOX, M1A1, M1A2  
Honeywell- M1A1  
BAE Systems- M1A1, M113 Family of Vehicles  
BAE (formerly United Defense Limited Partnership)- M113 Family of Vehicles, Opposing Forces Surrogate Vehicle, Israeli Mortar Carrier  
Seiler Instrument- M2A2 Aiming Circle

# Blue Grass Army Depot \*

## Richmond, Kentucky



### Mission

Provide munitions, missiles and chemical defense equipment logistical support to the joint warfighter. Supplier for non-standard ammunition. Blue Grass Army Depot (BGAD) is a critical outloading facility as part of the DoD’s Power Projection Mission.

### History

BGAD was established in 1941 and began operation in 1942 as an ammunition and general supply storage depot. In 1964, Blue Grass merged with the Lexington Signal Depot and became Lexington Blue Grass Army Depot. The Lexington Facility was selected for closure under BRAC. In September 1999, the Richmond facility was renamed BGAD.

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

The depot sits on approximately 14,500 acres of land. The facility has more than 1,100 structures including: igloos, supply warehouses, maintenance buildings, munitions sheds, and X sites. In 1999, BGAD assumed operational control and command of Anniston Munitions Center. The depot is also home of L3 Communications, a contractor providing repair and modification to Special Operations aircraft.

### Contact Information

Blue Grass Army Depot  
ATTN: SJMBG-CO  
2091 Kingston Highway  
Richmond, KY 40475-5001  
859-779-6246 (COM), 745-6246 (DSN)  
sjmbgco@bluegrass.army.mil (Email)

### Capabilities

BGAD is a Strategic Mobility Platform providing munitions, chemical defense equipment, and military operations support. The depot is DoD’s primary center for surveillance, receipt, storage, issue, testing and minor repair for the Chemical Defense Equipment Program (CDE). BGAD maintains and supports CDE stocks for deploying units and home defense forces and is a training site for Reserve units. Major capabilities also include demilitarization research and development, resource recovery and reutilization, Ammunition Information Technology Beta test site, Munitions Terminal Operations test site, precision smart bomb renovation, shipping container repair, and renovation of conventional munitions.

### Capabilities at a Glance

Chemical Defense Equipment, Chemical Material  
Surveillance Program  
Machining, fabrication and assembly  
Ammunition renovation  
Explosive demilitarization/disposal  
Quality assurance services  
Ship/Receive/Outload

### Partnerships

Lockheed Martin- CBU-103B/B



# Corpus Christi Army Depot \*

## Corpus Christi, Texas



### Mission

Overhaul, repair, modify, retrofit, test and modernize helicopters, helicopter engines and components for all services and foreign military sales. The depot serves as a training base for active duty Army, National Guard, Reserve and foreign military personnel. In addition, Corpus Christi Army Depot (CCAD) provides worldwide on-site maintenance service, aircraft crash analysis, lubricating oil analysis, and chemical, metallurgical and training support.

### History

The Army Aeronautical Depot Maintenance Center began operations in 1961. The center was tasked with helicopter repair and maintenance for three different engines and four airframes. The first Huey UH-1 helicopter was overhauled in 1962, and by 1968 the facility was in full operation. In 1974, the name was changed to Corpus Christi Army Depot, employing more than 4,500 civilian employees and serving the growing Army inventory of helicopters. In August 2001, CCAD was designated a DoD Center of Industrial and Technical Excellence for Rotary Wing Aircraft (less avionics).

*\* The capabilities of this installation will be impacted in accordance with BRAC 2005.*

### Installation Overview

CCAD is a tenant of Naval Air Station-Corpus Christi, and is situated on 158 acres of the 4,800 acre complex. CCAD operates a \$600 million, 2.2 million square-foot depot complex that includes extensive test, maintenance and hanger facilities. The vast installation includes a wide range of test cells, two blade whirl towers, autoclaves, and is the DoD's only facility with the ability to refurbish multi-service, multi-function component bearings.

### Contact Information

Corpus Christi Army Depot  
308 Crecy Street  
Corpus Christi, TX 78419-5260  
361-961-6643 (COM)

### Capabilities

CCAD is a large helicopter overhaul and repair facility. In addition to Army aircraft, the depot overhauls and repairs helicopters and components for the Air Force, Navy and Marines. As the "Cornerstone for Rotary Wing Aviation," the depot's multi-skilled and dedicated workforce of 3,470, backed by state-of-the-art facilities and equipment, support a wide range of weapon and component systems. CCAD's capabilities have been greatly enhanced through partnership contracts with Original Equipment Manufacturers including General Electric, Sikorsky, Boeing and Honeywell.

### Capabilities at a Glance

- Fabrication/Repair
- Precision rotor balancing
- Water jet stripping
- Autoclave capabilities
- Composites: Cat III, Rotor blade repair
- Bearing gauging, reballing, honing
- Certified soldering
- Computer Aided Manufacturing: Computer Numerically Controlled programming
- Metal spray
- Class 100 clean room
- ION vapor deposition
- Machining and sheet metal forming
- Tool and die manufacturing
- Cables, forming/machining/milling
- Heat treating
- Sheet metal
- Tube and hose manufacturing
- Foundry (non-ferrous)
- Metal finishing, metal spray
- Painting (airless, air-assisted)

### Partnerships

- Boeing- CH-47, AH-64
- Honeywell- T55 Engine (CH-47)
- Sikorsky- H-60
- General Electric- T700 Engine (AH-64, H-60)
- Fabritech Inc.- AH-64

# Hawthorne Army Depot

## Hawthorne, Nevada



### Mission

Hawthorne Army Depot (HWAD) provides munitions and unit training support for the joint warfighter. Provides conventional ammunition maintenance and demilitarization focused on resource recycling and recovery of materials and components. Provides High Desert training facilities for Special Operations Forces and Conventional Forces. Designated site for long-term storage of reused Industrial Plant Equipment.

### History

Hawthorne Army Depot was established Sept. 15, 1930. Naval Ammunition Depot Hawthorne was redesignated Hawthorne Army Ammunition Plant on Oct. 1, 1977, and subsequently, HWAAP was converted to a government-owned, contractor-operated installation on Dec. 1, 1980. On Oct. 1, 1994, with the loss of its production mission, HWAAP was redesignated as Hawthorne Army Depot (HWAD).

### Installation Overview

The depot occupies 147,236 acres. The facility has more than 2,915 structures including: igloos, supply warehouses, maintenance buildings, munitions sheds, and office buildings. HWAD has 7,685,000 square feet of storage and is the nation's premier demilitarization facility for conventional ammunition. The high desert, isolated location provides ideal training facilities for joint Special Operations forces preparing for deployments to Southwest Asia.

### Contact Information

Hawthorne Army Depot  
ATTN: SJMHW-CO  
1 South Maine Ave., Bldg 1  
Hawthorne, NV 89415  
775-945-7001 (COM), 830-7001 (DSN)  
lucy.engebretsen@us.army.mil (Email)

### Capabilities

HWAD is a large ammunition depot. The depot has immense storage and outload capabilities for both rail and truck. The Western Area Demilitarization Facility at Hawthorne is the nation's premier conventional ammunition demilitarization facility. HWAD is a provider for High Desert military training facilities. Selected by the Defense Logistics Agency for the storage of the nation's stockpile of elemental mercury.

### Capabilities at a Glance

#### Demilitarization

Plasma Ordnance Destruction System  
Rotary furnace  
Hot gas  
Melt-out  
Steam-out  
Press-out  
Open detonate and burn  
Flashing furnace

#### Training Capabilities

Convoy live fire  
Live fire ranges  
Mountain driving  
Rock climbing/cliff rappelling  
High angle sniper range  
Airborne operations  
Demolition areas

Ammunition renovation  
Quality assurance activities  
ISO container maintenance/repair facility  
Range scrap processing  
7,685,000 square feet of covered ammunition storage

# Letterkenny Army Depot \*

## Chambersburg, Pennsylvania



### Mission

Provide worldwide, reliable, responsive and cost-effective systems overhaul. Rebuild, upgrade, repair, and manufacture depot level maintenance, technical field support, systems integration and product support. Integration for weapon systems, end items, assemblies, sub-assemblies, components and ancillary equipment to ensure the readiness, sustainability and safety of the forces during the full spectrum of operational environments.

### History

Letterkenny Army Depot (LEAD) was established in 1941. Letterkenny’s mission was to reduce the surplus of forthcoming war materiel and store and ship ammunition, trucks, parts and other supplies. In the 1980s and early 1990s, Letterkenny’s mission became three fold: supply, maintenance and ammunition. Letterkenny’s future was reshaped in the 1990s by the tactical missile consolidation and DoD’s downsizing, reorganization and realignments. In 2005, the depot was awarded the Shingo Prize for demonstrated achievement in implementing Lean systems in support of the maintenance, repair and overhaul of the Patriot Missile Air Defense System.

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

Comprising over 17,500 acres, a large land portion of the depot is used to conduct maintenance, modification, storage and demilitarization operations on tactical missiles and ammunition. LEAD is the top employer in Franklin County fueling an economic engine that propels over \$250 million annually into the region through payroll, contracts and retiree annuities.

### Contact Information

Letterkenny Army Depot  
ATTN: AMSAM-LE-CO-TO  
1 Overcash Avenue, Bldg 10  
Chambersburg, PA 17201-4150  
717-267-8404 (COM), 570-8404 (DSN)  
angela.coons@us.army.mil (Email)

### Capabilities

LEAD is a capabilities-based depot versus a commodity-based depot. The installation is home to PATRIOT maintenance as well as other missile systems such as Avenger, Tube-launched Optically-tracked Wire-guided missile, Multiple Launch Rocket System, Advanced Fire Control System, Hellfire and Dragon. LEAD provides overhaul and repair of power generation equipment and provides mobile repair teams for on-site maintenance assistance. LEAD provides rebuild, repair and modifications for Ground Mobility Vehicles, specialized Special Operations vehicles, tactical wheeled vehicles, Biological Integrated Detection Systems, Material Handling Equipment, Force Provider, Mobile Kitchens, Containerized Chapels and various Soldier Support Systems. Letterkenny has expanded its capabilities through the use of partnerships.

### Capabilities at a Glance

Machining  
Sheet metal  
Engine overhaul  
Plating  
Metal finishing  
Generator overhaul  
Painting  
Electric motor rebuild  
Altitude chamber  
Welding  
Hydraulic repair  
Circuit card repair  
Electronic testing  
Non-destructive testing  
Phased array antenna  
28-acre radar test site  
Electronic systems integration  
Total package fielding  
Armor capabilities  
FLIR and laser overhaul  
Wiring harness fabrication/repair

### Partnerships

Military Systems Group- GMV  
AM General- HMMWV  
Melton Sales & Service-  
HMMWV, Avenger  
Penn Metal Fabricators, Inc.-  
Mobile Kitchen Trailers  
Lister Petter Americas-  
Generators  
AAI Corp- Shadow 200  
Unmanned Aerial Vehicle  
ACS Defense Inc.- Dry Filter  
Units  
Battelle- GMV Modification  
Kits  
Lockheed Martin/Raytheon-  
JAVELIN  
Lechmotoren US- PATRIOT  
BAE Systems- Deep Digger  
Edgewood Chem. Bio. Center-  
BIDS  
General Dynamics Robotic  
Systems- Stryker  
MACRO Industries- Avenger



# Red River Army Depot \*

Texarkana, Texas



## Mission

Conduct (Light) Ground Combat and Tactical Systems Sustainment Maintenance Operations, Air Defense Systems certification and related support services worldwide for the U.S. Armed Forces and allied nations. Train and employ the Army’s emerging sustainment maintenance companies. Provide essential base support services to Red River industrial complex missions. Be an active and viable partner in Bowie County, the greater Texarkana community and the four states area at large.

## History

Red River Army Depot (RRAD) was established in 1941 as an ammunition storage depot. Because of the demands of World War II, the mission was expanded to include general supply storage and tank repair. Throughout the years, the depot’s missions have evolved, and today Red River is engaged in activities ranging in scope from recertification of the Hawk and Patriot missiles to the production of M1 road wheels. Under BRAC 1995, RRAD relinquished 765 acres of land and 106 buildings to Bowie County; however, Red River Army Defense Complex remains the largest single employer in the greater Texarkana area.

*\* The capabilities of this installation will be impacted in accordance with BRAC 2005.*

## Installation Overview

The depot sits on approximately 18,316 acres of land. The facility has more than 1,310 buildings/structures that will accommodate repair/overhaul of electronic systems, heavy tanks, wheeled vehicles and artillery. RRAD is home to a workforce of 3,500 civilian and three military service members. RRAD has achieved recognition and earned registration under stringent ISO Quality System Requirements. RRAD was the first depot in the Department of the Army to achieve ISO certification across the total depot.

## Contact Information

Red River Army Depot  
ATTN-RR-B, Bldg 15  
100 Main Drive  
Texarkana, TX 75507  
903-334-5046 (COM), 829-5046 (DSN)  
ibmo@redriver-ex.army.mil (Email)

## Capabilities

RRAD is a national asset with over 60 years of service to the United States and its Soldiers. RRAD is designated as the Center of Industrial and Technical Excellence for Bradley Fighting Vehicles, Multiple Launch Rocket Systems carriers, rubber products, Patriot missile recertification, tactical vehicles and the Small Emplacement Excavator vehicle. The depots technical resources include the capability to design, fabricate and manufacture a wide range of items, from specialty parts to unique prototype weapon systems and vehicles.

## Capabilities at a Glance

- Storage- 701 earth-covered igloos
- Electronics
- Mechanical/hydraulics
- Rubber road wheels and track shoes
- Vehicle test track
- Engineering
- Explosive safety
- Renovation missiles and related components
- Demilitarization/recovery of missiles and ammunition
- Design and manufacture prototype vehicles for the Army and Air Force

## Partnerships

- United Defense Limited Partnership- Bradley Fighting Vehicle System-Family of Vehicles
- Global Defense- Bradley Fighting Vehicle System-Family of Vehicles
- MLS- M548

# Sierra Army Depot \*

## Herlong, California



### Mission

Serve as the Expeditionary Logistics Center and joint strategic power projection support platform, providing support in the form of storage, maintenance, assembly and containerization as a Center of Industrial Technical Excellence for critical Operational Project Systems including deployable medical systems, petroleum and water systems, Force Provider, strategic configured loads and other items as directed.

### History

Sierra Army Depot (SIAD) was established in 1942 and began operations as an ammunition and general supply storage depot. In 1993, Sierra became home to the three largest Operational Project Systems in the Army: Inland Petroleum Distribution System, Water Support Systems, and Force Provider and was designated a Center of Technical Excellence. Today, SIAD has become a premier life cycle management installation performing the receipt, storage, repair, maintenance and rapid deployment of a variety of military unique systems.

*\* The capabilities of this installation will be impacted in accordance with BRAC 2005.*

### Installation Overview

The depot sits on 36,322 acres of land adjacent to Honey Lake in Lassen County, Calif. The current infrastructure consists of 1,192 structures including igloos, supply warehouses, maintenance buildings, munitions buildings and Y sites. The depot is located on the east side of the Sierra Nevada mountain range at approximately 4,000 feet above sea level. This unique environment creates the perfect long-term storage conditions: extremely low humidity and moderate summers and winters.

### Contact Information

Sierra Army Depot  
ATTN: AMSTA-SI-COB  
74 C Street, Building 150  
Herlong, CA 96113-5001  
530-827-4888 (COM), 855-4888 (DSN)  
business@sierra.army.mil or partnerships@sierra.army.mil (Email)

### Capabilities

SIAD is a Joint Strategic Power Projection Platform providing a wide variety of long-term, life-cycle logistics solutions to the joint services. From long-term care, storage, and sustainment to minor repair and on-demand deployment, SIAD offers the competitive solution to logistics challenges.

### Capabilities at a Glance

- ISO 9000:2001 certified
- Over 36,000 buildable acres
- On-post C-17 capable airfield
- Container certification and repair
- Configuration management
- Preservation and packaging prototyping
- 10/20 repair of Operational Project Stocks
- On-demand shipments
- Partnerships with FPI and private industry that provide a range of additional capabilities

### Partnerships

- SAC EDM- HMMWV
- PMI- HMMWV
- Lichti- HMMWV
- FBOP- HMMWV
- LSI- ISO Container
- Radian- Production Planning and Control Augmentation
- Highland Engineering- Reverse Osmosis Water Purification System Reset

# Tobyhanna Army Depot \*

## Tobyhanna, Pennsylvania



### Mission

Provide total sustainment and integration of the full spectrum of DoD's critical Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) as well as Missile Guidance and Control systems.

### History

Tobyhanna Army Depot (TYAD) has served the United States since Feb. 1, 1953, providing U.S. Armed Forces with high quality, cost-effective communications-electronics products and services. Today, TYAD is the largest full-service joint C4ISR maintenance facility in the DoD.

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

The depot encompasses 1,296 acres, including 398 acres in the industrial area. The mission area consists of 153 buildings and 13 test ranges, to include multiple radar ranges and a laser range. Over 1.9 million square feet are dedicated to the depot's C4ISR and missile guidance and control missions with 61 percent of the mission area under one roof. TYAD is virtually self-sustaining with abundant infrastructure capacity to support its diverse mission requirements.

TYAD is ISO 9001:2000 certified for the repair, overhaul, fabrication, power projection and logistics support of communications electronics equipment and systems and the design and development supporting integration of communications electronics systems. The depot is the first DoD facility to be certified as an OSHA Voluntary Protection Program Star Site. To earn this prestigious designation, Tobyhanna met OSHA standards in 19 categories, including self-safety inspections, injury rates, employee participation, training, and personal protective equipment.

### Contact Information

Tobyhanna Army Depot  
ATTN: AMSEL-TY-BU  
11 Hap Arnold Boulevard  
Tobyhanna, PA 18466-5051  
1-877-ASK-TOBY (COM), 795-8629 (DSN)  
[www.tobyhanna.army.mil](http://www.tobyhanna.army.mil) (Web site)

### Capabilities

The Army has designated Tobyhanna as its Center of Industrial and Technical Excellence for communications-electronics, avionics, and missile guidance and control. The Air Force has designated Tobyhanna as its technical source of repair for command, control, communications and intelligence systems. TYAD's talented workforce, high level of electronics expertise, and the latest technologies and business management techniques ensure the depot is the provider of choice for fabrication, electronic repair, engineering design, systems integration, technology insertion, automated test equipment and technical documentation development of DoD's joint C4ISR systems as well as missile guidance and control systems. In addition to the main facility, TYAD operates 31 forward support locations ensuring operational readiness for the warfighter. TYAD personnel provide two-level maintenance on systems such as Warlock, Standard Army Management Information Systems, Tactical Operation Centers, Army Airborne Command and Control, Guardrail/Common Sensor, Firefinder, Common Ground Station, Tactical Unmanned Aerial Vehicles, and Communication Security equipment at sites throughout Europe, Southwest Asia, Korea, Okinawa and the Continental U.S.

### Capabilities at a Glance

#### C4ISR

Missile guidance and control repair/overhaul  
Tactical and fixed site integration of C4ISR systems  
Worldwide maintenance presence sustaining weapon systems  
Electronic equipment/small mechanic piece part manufacturing  
Robust engineering design, simulation and testing

### Partnerships

Dell- Computer Repair  
Northrup Grumman- Command Post Platform, Testing  
General Dynamics- Common Ground Station Modification Work  
Order, Vehicular Intercom System Repair  
BAE Systems- Engineering Support, ALQ-144 Reset  
Itronix- Computer Repair  
United Defense- Vehicular Intercom System Repair for Bradley  
Raytheon- Firefinder  
EPS Network Solutions- AN/PRC-112  
Thales Raytheon- Sentinel  
AAI Corp- Shadow Unmanned Aerial Vehicle Reset  
Van Brakel Elect.- Cable Assembly Fabrication  
COMTECH- Warlock

# Tooele Army Depot \*

## Tooele, Utah



### Mission

Tooele Army Depot (TEAD) is a premier active joint ammunition storage site. Tooele is responsible for shipping, storing, receiving, inspecting, demilitarizing, and maintaining training and war reserve conventional ammunition. Tooele’s Ammunition Equipment Directorate designs and manufacturers ammunition peculiar equipment (APE) used in maintenance and demilitarization of munitions for DoD.

### History

Construction of the TEAD facilities was completed in 1943. Originally the north area was known as the Tooele Ordnance Depot, which functioned as a storage depot for World War II supplies, ammunition, and combat vehicles. BRAC 1988 recommended that TEAD take over the general supply storage mission from Pueblo Army Depot Activity, Colo., and BRAC 1993 recommended TEAD eliminate its troop support, maintenance, storage, and distribution missions. The realignment of the maintenance and supply missions was completed in 1995. The depot currently retains the conventional ammunition storage, maintenance, demilitarization and APE portions of its mission. TEAD continues to provide extensive base operations support to Deseret Chemical Depot as well as communications support to Army installations throughout the western United States.

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

The depot consists of over 23,610 acres of land. The facility has 1087 structures: igloos, above ground magazines, supply warehouses, maintenance buildings, public works facilities and administrative buildings. There is 2,483,000 square feet of storage space capabilities. Employment currently consists of: 467 civilians, two military, 118 contractors, 64 tenants and 49 Non-Appropriated Fund employees.

### Contact Information

Tooele Army Depot  
ATTN: SJMTE-CO  
Tooele, UT 84074  
435-833-2211 (COM), 790-2211 (DSN)  
Kathy.anderson1@us.army.mil (Email)

### Capabilities

TEAD specializes in ammunition logistics and the engineering of ammunition and ammunition-related equipment. As a major Power Projection Platform for the United States’ Joint Services, TEAD issues, receives, stores, maintains, demilitarizes and tests ammunition. Additionally, the depot designs, develops, and fabricates field ammunition related equipment. TEAD’s equipment and services are used throughout the world. In its 60-plus year history as an ammunition management and development facility, TEAD has established the infrastructure, specialized workforce, and proven procedures needed to meet today’s technological challenges quickly and effectively.

### Capabilities at a Glance

- Ammunition, logistics and engineering
- National Inventory Control Point for Ammunition
- Peculiar Equipment
- ISO 9001:2000 certified
- Lean/Six Sigma organization
- Ship/Store/Outload
- Renovation/Reclamation/Demilitarization/Disposal
- Robotics, material handling and remotely controlled vehicles
- R3 Technology (hydrolysis and super critical water oxidation)



# Anniston Defense Munitions Center

## Anniston, Alabama



### Mission

Anniston Defense Munitions Center (ADMC) provides timely and accurate receipt, storage, shipment, maintenance, inspection, demilitarization, and recycling of ammunition and missiles in support of the joint warfighter.

### History

ADMC, located at Anniston Army Depot, is a multi-functional ammunition facility. The primary mission is receipt, storage, surveillance and shipment of missiles and conventional ammunition. Effective Oct. 1, 1999, ADMC officially came under the full command and control of Blue Grass Army Depot in Richmond, Ky. ADMC received its first on site commander in June 2004.

### Installation Overview

The center sits on 13,160 acres of land and is comprised of 33 buildings and 1124 igloos (storage capacity of 2,219,952 square feet). There are 180 miles of roads and 19 miles of railroads at ADMC. The site is centrally located to provide timely support to southeast portion of the United States. ADMC has year-round operational capability.

### Contact Information

Anniston Defense Munitions Center  
ATTN: SJMBG-AN-P  
7 Frankford Avenue  
Anniston, AL 36201-4199  
256-235-7571 (COM), 571-7571 (DSN)  
gordon.l.williamson@us.army.mil; mark-pomeroy@us.army.mil (Email)

### Capabilities

The ADMC is a key DoD site for missile and rocket maintenance, demilitarization and disposal by open burning and open detonation and is the strategic resupply center for some military units. The ADMC is also the site for the Department of Army's Missile Recycling Center and is one of the Army's ammunition storage sites with more than 450 "Stradley" igloos, which can store some of the Army's largest munitions. Future technologies and capabilities include: Energetics Processing Module, Slurry Explosives Module, Contained Detonation Chamber, Multiple Launch Rocket System Recycling, 155 additional Igloos in fiscal year 10, additional Conventional/Missile Maintenance Facility in fiscal year 10, and Department of Army Automated Ammunition Requirements Tool/ Ammunition/Computer Aided Manufacturing Web-based tool.

### Capabilities at a Glance

Ship/Receive/Outload  
Storage – Stradley, H-type and Standard Igloos  
Ammunition renovation  
Preservation, packaging and maintenance  
Quality assurance services  
Explosive Demilitarization/Disposal –  
Open Burning and Open Detonation  
Missile recycling center



# Crane Army Ammunition Activity \*

## Crane, Indiana



### Mission

Receive, store, ship, produce, renovate and demilitarize conventional ammunition, missiles and related components to meet contingency requirements in support of the warfighter.

### History

In 1940, Congress appropriated \$3 million for the construction of the depot. In 1941, the Naval Ammunition Depot was commissioned. In 1975, the U.S. Army was tasked by DoD as the single manager for procurement, supply, maintenance and renovation for conventional ammunition, and on Oct. 1, 1977, Crane Army Ammunition Activity (CAAA) was activated and assumed the ammunition production functions as a tenant activity at the Naval Surface Warfare Center Crane Division.

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

CAAA is licensed 62,434.54 acres with 1,800 magazines, 386 buildings and approximately 4.9 million square feet of storage capacity. Crane’s primary mission is that of a major Power Projection Platform, which includes storage and outload with an active production mission for Pyrotechnics (Illumination and Infrared) candles for mortars and projectiles, decoy flares, bomb and ammunition renovation as well as demilitarization. CAAA is also host to Reserve training programs.

### Contact Information

Crane Army Ammunition Activity  
ATTN: SJMCN-CO  
300 Highway 361  
Crane, IN 47522-5099  
821-854-1484 (COM), 482-1484 (DSN)  
timothy.i.adams@us.army.mil (Email)

### Capabilities

CAAA is a Strategic Mobility Platform offering logistical support in receiving, storing, shipping and surveillance. As a Munitions Center of Excellence, CAAA is the producer of pyrotechnic “candles” for mortar and artillery illumination rounds and MJU-55 and MJU-57 decoy flares. CAAA is a major producer of large caliber Navy gun ammunition with capabilities to cast load, press load, bomb renovation, missile warhead pressing, insensitive munitions, actuating devices and C-4 extrusion. CAAA’s demilitarization capabilities include steam out, high pressure washout, permitted open burn/open detonation, CO2 pellet blasting, contained detonation (coming on line), water-jet, autoclaves and white phosphorus conversion. The activity’s Machining Center offers fabrication of tools, dies, fixtures, gages and production equipment and components. CAAA can also weld, heat treat and perform cleaning and finishing.

### Capabilities at a Glance

- Logistical operations
- Munitions manufacturing
- Demilitarization
- Munitions maintenance and renovation
- Remote operations capability
- Engineering services
- Environmental test facility
- Logistics support machine shop
- In-house chemical lab

### Partnerships

- SNC- 105mm
- Gradient- Yellow-D

# Holston Army Ammunition Plant

## Kingsport, Tennessee



### Mission

Holston Army Ammunition Plant manufactures a wide range of secondary detonating explosives including RDX, HMX, TATB, NTO and related formulations in addition to a growing number of speciality chemicals such as DNAN and DMDNB. Research and development plays a vital role in the development and production of new products to meet the current and future needs of the warfighter. Holston is currently capable of producing more than 80 products.

### History

During WWII, the U. S. Government needed a highly effective explosive to counter German U-boats. In June 1942, the U.S. Government authorized Tennessee Eastman Company to design and operate Holston Ordnance Works for the manufacture of Composition B. Peak employment levels hit 7,345 in 1945. Holston was mothballed at the end of WWII and was reactivated for the Korean Conflict. In January 1999, BAE Systems Ordnance Systems Inc., became the operator under a facilities use contract. Since 1999, Holston has experienced a significant growth in production volumes, product offerings, and manufacturing capabilities.

### Installation Overview

The plant sits on a total of 6,024 acres of land. HSAAP is comprised of two major areas. Area A is located within the city of Kingsport, Sullivan County. Area B, over 5,900 acres, is located west of Kingsport, in both Sullivan and Hawkins counties. The two areas are connected by rail and pipeline. The facility has more than 450 buildings, including 130 igloos. Holston has about 21 Armament Retooling and Manufacturing Support program tenant businesses, including the Holston Business Development Center. Since June 2004, Holston has been commanded by the commander of Anniston Defense Munitions Center in Alabama.

### Contact Information

HOLSTON AAP  
ATTN: SJMHS - CR  
4509 West Stone Drive  
Kingsport, TN 37660-1048  
423-578-6241 (COM); 748-6241 (DSN)  
hsaap@afsc.army.mil (Email)

### Capabilities

Core capabilities at Holston include the mixed-acid nitration of organic molecules to synthesize a host of secondary high explosives, from gram-scale to millions of pounds. Product purification and particle size is controlled by recrystallization from organic solvents, with a fully permitted environmentally compliant effluent treatment capability. Explosive products are formulated at Holston to provide for melt-cast, pressed, extrudable and cast-cured explosive fillings. All explosive operations are performed against an ISO 9001:2000 accredited registration. Research and Development (R&D) at Holston is highly focused on next-generation energetic materials, using affordable, practical chemistry techniques. R&D covers the technology areas of synthesis, formulation, analytical methods-development and explosive performance testing. Synthesis scale-up is afforded by a unique production capability: a flexible, reconfigurable chemistry capability that can quickly produce multiple products throughout the manufacturing year. This agile facility, developed since 1999, has been used to manufacture new ingredients Insensitive Munitions compliant explosives, such as PAX-21 and PAX-34.

### Capabilities at a Glance

Production and development of Insensitive Explosives  
Production of RDX, HMX, Pressed PBXs and melt-cast  
high explosives  
Synthesis and manufacture of high explosives -  
grams to millions of pounds  
Recrystallization and purification from organic solvents  
Melt-cast, cast-cured, pressed and extrudable explosives formulation  
Explosives performance testing  
Full-spectrum explosives R&D capability  
Custom and Fine Chemical manufacture for the Defense Industry  
ISO 9001:2000 accreditation

### Partnership

BAE Systems Ordnance Systems Inc.- All products

# Iowa Army Ammunition Plant \*

## Middletown, Iowa



### Mission

Produce and deliver quality large caliber ammunition items for DoD using modern production methods in support of worldwide operations. Maintain stewardship of government facilities and the environment.

### History

Iowa Ordnance Plant (IOP) was established in 1940 and began production in 1941 of ammunition items to support the war effort. In 1947 the Mason & Hanger-Silas Mason Co., Inc., of Lexington, Ky., was selected by the Atomic Energy Commission to design and build the first production facility at the IOP for the manufacture of high explosive components for atomic weapons. In 1975, all nuclear weapons related production was terminated at the plant. In 1963, the plant was renamed Iowa Army Ammunition Plant (IAAAP).

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

The plant sits on 19,011 acres of land. The facility has more than 1,377 structures including: igloos, buildings and magazines with a total of 4.3 million square feet of storage. The plant has 143 miles of roads and 102 miles of railroads. The plant also has an active test fire area for testing live munitions, on post fire station and a contaminated waste processor. IAAAP is a government-owned, contractor-operated facility, operated by American Ordnance LLC, under a facilities use contract. IAAAP had an additional mission added to their on going mission after the 2005 BRAC. The use of the Armament Retooling and Manufacturing Support program at IAAAP has reduced the operating cost for the plant.

### Contact Information

Iowa Army Ammunition Plant  
ATTN: SJMIA-CO  
17571 Highway 79  
Middletown, IA 52638-5000  
319-753-7200 (COM), 585-7200 (DSN)  
jack.judy@us.army.mil (Email)

### Capabilities

Current production capabilities and orders include the M795, M107 and M927 artillery projectile, the Modular Artillery Charge System, 75mm and 105mm blanks, the entire 120mm family of tank ammunition, and warheads for the Javelin, Mongoose, and Hawk missiles.

### Capabilities at a Glance

- Load, assemble, and pack ammunition items
- Tank ammunition
- Rocket assisted projectiles
- Artillery projectiles
- Pressed warheads/cast warheads
- Mines and Family of Scatterable Mines
- Detonators
- Research and development work

### Partnerships

General Dynamics- 120mm Tank

# Kansas Army Ammunition Plant \*

## Parsons, Kansas



### Mission

Load, assemble and pack ammunition items.

### History

Kansas Army Ammunition Plant (KSAAP) was established in 1941 and began operation in 1942 as an Army ammunition plant.

*\* The installation was selected for closure under BRAC in 2005.*

### Installation Overview

KSAAP sits on approximately 13,727 acres of land. The facility has more than 749 structures including igloos, supply warehouses, maintenance buildings, and munitions sheds. KSAAP is a government-owned, contractor-operated facility, operated by Day & Zimmermann, under a facilities use contract.

### Contact Information

Kansas Army Ammunition Plant  
ATTN: SJMKS-CR  
23018 Rooks Road  
Parsons, KS 67357-8403  
620-421-7400 (COM), 956-1400 (DSN)  
donald.dailey@us.army.mil (Email)

### Capabilities

Produces the Sensor Fuzed Weapon for the Air Force, M720 and M768 60mm mortars for the Army, and the M795 155mm projectile for the Marine Corps, as well as various ammunition items in smaller quantities. In addition, KSAAP demilitarizes, converts, develops, and/or upgrades ammunition using melt pour, injection load, high speed pressing, and large-capacity pressing using conventional and insensitive munitions explosives. The plant has a facilities use contract, which allows both commercial and DoD work.

### Capabilities at a Glance

Load, assemble and pack ammunition items  
Bombs (unitary, cluster, guided, smart)  
Demilitarization  
Renovation/rework  
Missile warheads  
Grenades, bomblets  
Tank ammunition  
Artillery projectiles  
Mortars  
Detonators, lead charges, boosters

# Lake City Army Ammunition Plant

## Independence, Missouri



### Mission

Provider of DoD small caliber ammunition. Performs reliability testing for all calibers of small arms. Serves as NATO National and Regional Test Center for ammunition and weapons testing. Producer of small and medium caliber links.

### History

Lake City Army Ammunition Plant (LCAAP) began construction in 1940 and operations in 1941 as the first of 12 small arms plants. LCAAP orders bulk metals, chemical, and propellants and fabricates them into complete 5.56mm, 7.62mm, and .50 caliber and load, assembles and packs 20mm.

### Installation Overview

The plant is located on 3935 acres. The facility has a total of 511 structures with over 420 buildings being utilized in active day-to-day fabrication, manufacturing, and testing of small arms. LCAAP is a government-owned, contractor-operated facility, operated by Alliant Techsystems Inc., under a fixed price supply contract.

### Contact Information

Lake City Army Ammunition Plant  
ATTN: SJMLC-CO  
7 Highway and Route 78  
Independence, MO 64501-1000  
816-796-7111 (COM), 463-9111 (DSN)  
lcaap@afsc.army.mil (Email)

### Capabilities

High capacity source of small arms ammunition. The facility produces 1.5 billion rounds of 5.56mm, 7.62mm, .50 caliber and loads, assembles and packs 20mm ammunition and is the source for small/medium caliber links. The operating contract was awarded under a Firm Fixed Price with total plant discounts at the 800 thousand and one million round level. LCAAP is a Comprehensive Environmental Response, Compensation, and Liability Act (aka SuperFund) site with a performance-based contract for the Installation Restoration Program. LCAAP is a NATO Small Arms Ballistic Test Center. DoD munitions storage capacity of 44 igloos/warehouses/magazines.

### Capabilities at a Glance

Complete round manufacture of small arms cartridges  
Percussion and electric primer  
Pyrotechnics manufacturing  
Machining, fabrication and assembly  
Explosive demilitarization/disposal  
Indoor range from 50-200 yards  
Outdoor range to 2400 yards



# Letterkenny Munitions Center

## Chambersburg, Pennsylvania



### Mission

Provide total munitions and missile support to the joint warfighter.

### History

Letterkenny Army Depot (LEAD) was established in 1941 and began operation in 1942 as an ammunition and general supply storage depot. In 1961, LEAD's ammunition operation began supporting Army air defense missiles and Air Force air intercept missiles. The missile mission now encompasses Army, Air Force and Navy systems. In 1999, the Directorate of Ammunition Operations was renamed Letterkenny Munitions Center (LEMC) and command and control was transferred to Crane Army Ammunition Activity, Crane, Ind.

### Installation Overview

LEMC is a tenant on LEAD and occupies approximately 16,000 acres of the depot's total of 17,400 acres. The facility has more than 1,100 structures including: 902 igloos, 10 standard above ground magazines, 20 supply warehouses, 16 maintenance and operations buildings, munitions sheds, administrative buildings and other various support buildings. LEMC has 128 miles of paved road, 30 miles of rail track, two major containerization pads and 26 rail docks.

### Contact Information

Letterkenny Munitions Center  
ATTN: SJMCN-MC  
1 Overcash Avenue  
Chambersburg, PA 17201-4150  
717-267-8400 (COM), 570-8400 (DSN)  
Edward.Averill@us.army.mil (Email)

### Capabilities

LEMC is a Strategic Mobility Platform providing munitions and missile support. The depot is a center for surveillance, receipt, storage, issue, testing and minor repair for the Army Tactical Missile System and Guided Multiple Launch Rocket System missiles, Air Force and Navy Sidewinder, Sparrow, High-speed Antiradiation Missile, Joint Air-to-Surface Stand-off Missile, Advanced Medium Range Air-to-Air Missile and Penguin missiles. LEMC is a training site for Reserve ammunition units. Major capabilities also include demilitarization research and development, resource recovery and reutilization for missiles, shipping container repair, missile container repair, and renovation of conventional munitions.

### Capabilities at a Glance

- Ammunition surveillance
- Munitions storage and shipping
- Munitions maintenance
- Missile maintenance
- Repair and electronic testing
- Non-destructive testing (very large x-ray, real time x-ray, magnetic particle, ultrasound)
- Demilitarization/Disposal
- Ship/Store/Outload

# Lone Star Army Ammunition Plant \*

## Texarkana, Texas



### Mission

Support the warfighter by loading, assembling and packing ammunition. Produce high quality explosive items in a safe and secure manner at a competitive price.

### History

Construction of Lone Star Army Ammunition Plant (LSAAP) was completed in 1942 and was opened as the Lone Star Ordnance Plant. In 1945, production ceased and Lone Star was merged with Red River Ordnance Depot and was renamed Red River Arsenal. In 1950, when the international situation became critical, LSAAP was selected as one of the industrial installations to be reactivated. Day & Zimmermann was selected in May 1951 as the operating contractor and has continued as the operating contractor to date. LSAAP performs and maintains the various functions necessary to load, assemble and pack ammunition for all military services.

*\* The installation was selected for closure under BRAC in 2005.*

### Installation Overview

LSAAP occupies approximately 15,699 acres, including 153 miles of road, 41 miles of rail, 1,120 buildings and eight production areas. Also included are six storage areas, which include both earth- covered and above-ground magazines. As an industrial complex, LSAAP provides facilities maintenance, environmental programs, and has both a 50-acre industrial landfill and a 110-acre permitted municipal landfill.

### Contact Information

Lone Star Army Ammunition Plant  
ATTN: SJMLS-CO  
Highway 82 West  
Texarkana, TX 75505-9101  
903-334-1207 (COM), 829-1207 (DSN)  
[www.lonestaraap.com](http://www.lonestaraap.com) (Web site)

### Capabilities

LSAAP's core capabilities include ammunition end-item production, explosive component production, production engineering, receipt, storage and issue, explosive and industrial facilities management.

### Capabilities at a Glance

- Load, assemble and pack ammunition
- Family of Scatterable Mines
- Components
- Improved conventional munitions
- Multiple launch rocket system grenades/cargo
- Hand grenades
- Renovation and reclamation
- Demilitarization/Disposal

# McAlester Army Ammunition Plant \*

## McAlester, Oklahoma



### Mission

Produce, renovate, demilitarize, store and ship bombs, conventional ammunition and ammunition related components.

### History

Established May 20, 1943 as the McAlester Naval Depot, the first production began in September 1943. Peak employment during WWII was more than 8,000 civilians with 680 military. The depot transferred to the Army on Oct. 1, 1977, under the Single Manager for Conventional Ammunition Act. Red River Munitions Center transferred to McAlester Army Ammunition Plant (MCAAP) on Oct. 1, 1999 as a result of the BRAC process. MCAAP is a government-owned, government-operated facility.

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

MCAAP consists of 45,000 acres in southeastern Oklahoma. The facility has more than 2,800 permanent structures, 2,000 igloos, 220 miles of railroad, 400 miles of improved roads and 25 miles of fiber optic cable. MCAAP is ISO 9001 certified and a Lean/Six Sigma continuous improvement organization. MCAAP is the only organic bomb-making facility in the United States.

### Contact Information

Commander/SJMMC-CO  
McAlester Army Ammunition Plant  
1 C Tree Road  
McAlester, OK 74501-9002  
918-420-6211 (COM), 956-6211 (DSN)  
co@mcaap.army.mil (Email)

### Capabilities

Load, assemble and pack MK80 Series Bombs, Plastic Bonded Explosive Bombs, Penetrator Bombs, insensitive munitions load, Massive Ordnance Air Blast, Navy Propelling Charges, rockets, 40mm cartridge assembly, High-speed Antiradiation Missile Integration, Joint Stand Off Weapon All Up Round Integration, Extended Range Guided Munition Integration, Harpoon Warhead loading and Excalibur. Renovation of bombs, rockets, projectiles, mortars, small arms, propelling charges, and shipping containers. Other capabilities include: wood and metal pallets, chemical laboratories, radiographic facilities, missile disassembly and demilitarization.

### Capabilities at a Glance

Load, assemble, and pack of bombs  
20mm and 40mm cartridge assemblies  
Propelling charges  
Rockets  
Warheads  
Renovation  
Demilitarization  
Research and development  
Storage  
Ship/Receive/Outload

### Partnerships

Boeing- AGM-88  
Raytheon- AGM-154, AGM-65  
General Dynamics Ordnance and Tactical Systems- MK-80 Series, BLU-122  
William Woods- Wood pellets  
EXPLO Systems- Wood pellets

# Milan Army Ammunition Plant \*

## Milan, Tennessee



### Mission

Load, assemble, pack, store, ballistic test, extrude and accept conventional ammunition items.

### History

Milan Ordnance Depot and Wolf Creek Ordnance Plant were established in 1941. The plant began production in 1941 of ammunition items to support the war effort. In 1943, the plant and the depot were merged into Milan Ordnance Center, redesignated Milan Arsenal in 1945. Between 1960 and 1963, several name changes were made, concluding the redesignation of Milan Army Ammunition Plant (MLAAP).

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

The plant sits on 22,357 acres of land. The facility has more than 2,405 structures including igloos, buildings and magazines with a total of 2.3 million square feet of storage. The plant has 205 miles of roads and 86 miles of railroads. The plant also has an active test fire area for testing live munitions, on post fire station and is capable of open burn/open detonation of explosives.

### Contact Information

Milan Army Ammunition Plant  
ATTN: SJMML-CO  
2280 Highway 104 West  
Milan, TN 38358-6101  
731-686-6101 (COM), 966-6101 (DSN)  
mlaap@afsc.army.mil (Email)

### Capabilities

MLAAP manufactures the M74 Grenade and loads into Army Tactical Missile System Warhead. In addition, the plant has medium caliber 40mm pressing and load, assembly, and packaging capabilities for: 40mm, M918/M385, and M430/M433. Capability to receive and ship containerized cargo. CAT II storage capability.

Milan also has the ability for: High Explosive Artillery/Mortar Melt Pour; assembly and packaging of 105mm/155mm/60mm/81mm; modern Extruder of C-4 plastic explosives; C-4 used for Mine-Clearing Line Charge (M58A4/M68A2) and M112/M183 demolition charges; and assembly of Reactive Armor Tiles for the Bradley Fighting Vehicle. The depot storage capacity is 874 igloos and 22 magazines.

### Capabilities at a Glance

- Load, assemble, and pack of ammunition
- 40mm cartridges
- Mortars/mortar components (propellant charges, ignition cartridges, fuze boosting)
- Artillery projectiles
- Ignition cartridges
- Propelling charges
- Bursters
- Grenades
- Tactical Missile System
- Dispenser and bomb cluster bomb units
- Reactive Armor Tiles
- Demilitarization/Disposal
- Renovation/Reclamation
- Item development and production test support
- Logistics support

# Mississippi Army Ammunition Plant \*

## Stennis Space Center, Mississippi



### Mission

Mississippi Army Ammunition Plant (MSAAP) provides maintenance of laid away cargo grenade metal parts manufacturing equipment and associated tools, gages, and Test, Measurement and Diagnostic Equipment.

### History

MSAAP is located in the National Aeronautics and Space Administration Stennis Space Center. Established in 1976 and dedicated on March 31, 1983, it is the only ammunition plant constructed since World War II. It was designed to handle the complete on-site production and assembly of the M483A1 ICM 155mm Howitzer projectiles and grenade bodies. Live load, assemble, and pack (LAP) operations began in May 1984. The highest employment was 1,831 in 1989. The Army ceased active production in 1990 and layaway of excess capacity was completed in 1991. In December 1992, MSAAP was the first facility to sign a facility use contract under the Armament Retooling and Manufacturing Support (ARMS) program. Applied Geo Technologies, Inc., is the current operating contractor.

*\* This installation was selected for closure under BRAC in 2005.*

### Installation Overview

The plant sits on a total of 4,214 acres of land owned by NASA. It occupies the land by means of an Army permit. The installation consists of 123 buildings, including 41 igloos and five magazines. A number of buildings have been converted from manufacturing related use to commercial/office space under the ARMS program. MSAAP has about 19 ARMS tenant businesses, including Boeing, the U.S. Navy and Department of Energy.

### Contact Information

Mississippi Army Ammunition Plant  
ATTN: SJMMS – AO  
BLDG 9100 Moses Cook Road  
Stennis Space Center, MS 39526-7000  
228-689-8907 (COM)  
446-8907 (DSN)  
pamela.brown@us.army.mil (Email)

### Capabilities

MSAAP’s operating contractor maintains the capability for equipment maintenance, installation reuse, industrial waste treatment, sanitary waste treatment, gas-fired steam generation, water system distribution, hazardous waste accumulation, computer support and laboratory facilities.

### Capabilities at a Glance

Maintenance management  
Facility reuse management



# Radford Army Ammunition Plant

## Radford, Virginia



### Mission

Manufacture propellants and explosives in support of field artillery, air defense, tank, missile, aircraft and Navy weapon systems.

### History

In August 1940, Hercules reached agreement with the U.S. Government to build/operate Radford Ordnance Works and New River Plant. Construction was completed in six months. Operated under a cost-plus contract, the Army directed approximately 97 percent of the work. In 1995, Alliant Techsystems, Inc., obtained a firm fixed-price facility use contract. Directed workload is only two percent and 98 percent is competitively obtained. Joliet Army Ammunition Plant load, assembly, and pack (LAP) mission was relocated to Radford Army Ammunition Plant (RFAAP) in 1999.

### Installation Overview

RFAAP occupies approximately 7,000 acres, in two separate locations. There are over 2,500 buildings (including ammunition storage), which provide over three million square feet of covered areas. RFAAP is an Armament Retooling and Manufacturing Support site with several tenants. Tenant revenue is used to off-set facilities costs.

### Contact Information

Radford Army Ammunition Plant  
ATTN: SJMRF-CO  
P.O. Box 2  
Radford, VA 24143-0002  
540-639-8711 (COM), 931-8711 (DSN)  
rfaap@afsc.army.mil (Email)

### Capabilities

Continental United States producer of nitrocellulose, solventless propellant for rocket motors and weapons-grade TNT. Produces single and multi-base propellants. LAP facility for medium caliber munitions, 25/30mm. DoD munitions storage capability of approximately 200 igloos/magazines. Capable of producing over 400 different propellants.

### Capabilities at a Glance

Manufacturing propellant and explosives  
Nitrocellulose  
Nitroglycerin  
Nitrate esters  
Propellants (Single Base, Double Base, Triple Base)  
TNT  
Ethyl cellulose

### Partnerships

Pyrotechnic by Grucci- M115, M116, M117 simulators  
Valentec Systems- 120mm, 60mm mortars  
Alliant Techsystems, Inc.- 25mm, 30mm medium caliber, 155mm large caliber

# Red River Munitions Center \*

## Texarkana, Texas



### Mission

Support the joint warfighter by executing efficient and safe receipt, issue, storage, demilitarization, renovation and maintenance of conventional munitions and missiles within cost and on schedule.

### History

Built in 1942 as Red River Ordnance Depot, the original mission was to serve as an ammunition storage facility. Before completion of the ammo storage buildings, Red River was assigned the additional missions of tank repair and storage of general supplies. In 1967, Red River was chosen to become the sole maintenance facility for the Chaparral Missile. During the 1990s, the Army placed the general supply mission under the Defense Logistics Agency. In 1999, the depot was placed under command of TACOM Life Cycle Management Command and the ammunition mission under the Industrial Operations Command (which later became Joint Munitions Command). As a result, in 1999, the Ammunitions Directorate became Red River Munitions Center (RRMC) under the command and control of McAlester Army Ammunition Plant.

*\* The capabilities of this installation will be impacted in accordance with BRAC 2005.*

### Installation Overview

RRMC is a joint service provider, providing support to the Joint Munitions Command, Aviation and Missile Life Cycle Management Command, Army, Air Force, Navy and Marine Corps and the host depot, Red River Army Depot. Provides support/partnership with RRAD, TRMF (Hawk and Patriot Missile). Provides support/partnership with Lone Star Army Ammunition Plant for various demilitarization programs. RRMC works under the core concept equipping and training the employees with multi-skilled expertise. RRMC has over 8,934 acres, 107 miles of improved roads, 20 miles of railroad, 701 igloos (107 for CAT I and II Storage), 18 standard magazines and 10 covered sheds for Patriot missiles. RRMC currently stores over \$5 billion of inventory. RRMC is ISO 9000 certified.

### Contact Information

Red River Munitions Center  
ATTN: SJMMC-MC  
100 Main Drive  
Texarkana, TX 75507  
903-334-2437 (COM), 829-2437 (DSN)

### Capabilities

RRMC has the capability to test and repair various missiles and guidance control groups. The center is Level I, II and III certified in x-ray (M213 fuzes, rocket motors, and motors) and maintains/renovates various munitions and missile systems. In addition, RRMC is responsible for the renovation of M67 hand grenades, mortars, 2.75” rockets, and various 105mm and 155mm to include link and delink of various small arms. Provides Quality Assurance Specialist (Ammunition Surveillance) support to the warfighter.

### Capabilities at a Glance

Ammunition surveillance  
Munitions storage and shipping  
Munitions/Missile maintenance  
Demilitarization/Disposal  
Ship/Store/Outload

# Riverbank Army Ammunition Plant \*

## Riverbank, California



### Mission

Provide ammunition to sustain combat power for the services. Manufacture, under the facility use contract, a wide range of ammunition, defense and commercial application items competitively obtained. Maintain and support minimum facilities, in a standby status, required to produce deep drawn cartridge cases, medium caliber cartridge cases and grenade metal parts.

### History

Originally constructed in 1942 as an aluminum reduction plant and converted in 1951 to produce metal parts. At the height of the Vietnam conflict, employment peaked at 1,923. The plant was in a layaway status from 1958 to 1963 when put up for sale by General Services Administration. No qualified purchasers were interested and the plant remained in a standby status. In June 1966, the Army reactivated Riverbank Army Ammunition Plant (RBAAP) for the Vietnam conflict. The facility has three major production lines, two of which are laid away.

*\* This installation was selected for closure under BRAC in 2005.*

### Installation Overview

RBAAP is a government-owned, contractor-operated facility, operated by NI Industries, Inc., located near Riverbank, Calif. RBAAP occupies 172 acres, has 133 buildings and 500,000 square feet of storage area. RBAAP was listed as a National Priorities List site in 1990. Contaminants are chromium and cyanide. RBAAP is currently operating a pump and treat system to decrease the groundwater contamination plume. RBAAP is an Armament Retooling Manufacturing Support site with several tenants.

### Contact Information

Riverbank Army Ammunition Plant  
ATTN: SJMRB-CR  
5300 Claus Road, P.O. Box 670  
Riverbank, CA 95367-0670  
209-869-7239 (COM), 466-4239 (DSN)  
brownell.turner@us.army.mil (Email)

### Capabilities

The Army has not work-loaded RBAAP since 1981, but it has the capability to produce ammunition metal parts for mortar, grenades and cartridge cases. Because of the closure of the Norris Industries-Vernon facility, RBAAP is now the source for steel deep drawn cartridge cases. RBAAP is producing steel and deep drawn cartridge cases via competitive awards from the services.

### Capabilities at a Glance

Manufacture munitions metal parts  
155mm, 105mm, 5"/54, and 40mm cartridge cases  
Mortars  
Cargo grenades  
Shearing and blanking processes for steel cold deep draw and brass

# Scranton Army Ammunition Plant

## Scranton, Pennsylvania



### Mission

Manufacture 105mm to 155mm diameter projectiles, including M795, 120mm family of projectiles, M107, M804, M485, MK64-2 and the M110.

### History

Originally constructed in 1910 as a steam locomotive erecting and repair facility for the DL&W Railroad, Scranton Army Ammunition Plant (SCAAP) was acquired in 1951 and converted to produce metal parts. Because the main production buildings remain largely unaltered, the installation is on the National Register of Historic Places as part of the Steamtown Historic District. The original operating contractor, US Hoffman Machinery Corporation, operated the facility until 1963, when Chamberlain Manufacturing Corporation (CMC) replaced them. CMC has been the operating contractor since then. In 1994, CMC was awarded a facilities use contract for operation of the installation. This contract provides no government funds and allows the contractor to lease government-owned equipment to manufacture commercial products. The current contract also requires CMC to invest a minimum of \$2 million per year in facilities maintenance and improvements.

### Installation Overview

SCAAP is an active, government-owned, contractor-operated ammunition plant located in Scranton, Pa. SCAAP occupies 15.3 acres, has seven buildings and 509,000 square feet of building area. SCAAP manufactures large caliber steel projectiles for artillery, mortar, and Navy projectile metal parts.

### Contact Information

Scranton Army Ammunition Plant  
ATTN: SJMSC-CR  
156 Cedar Avenue  
Scranton, PA 18505-1138  
570-340-1152 (COM), 247-1152 (DSN)  
scaap@aco.pica.army.mil (Email)

### Capabilities

SCAAP is capable of producing finished large caliber projectiles from raw steel stock. The facility's long stroke, 400- to 2,500-ton presses are unique to ammunition manufacture.

### Capabilities at a Glance

Manufacturing ammunition metal parts  
Capability to produce 60mm to 8" diameter projectiles  
120mm mortar family  
5"/54 gun projectiles  
155mm artillery projectiles

# Pine Bluff Arsenal

## Pine Bluff, Arkansas



### Mission

Pine Bluff Arsenal’s (PBA) mission includes ammunition production, chemical/biological defense production and repair, depot storage and surveillance, chemical weapons management, and homeland security. PBA is an organic facility with chem/bio production and rebuild capability. PBA’s homeland security support mission includes first-responder equipment training, and surveillance of prepositioned equipment.

### History

Established in November 1941 for the manufacture of incendiary grenades and bombs, PBA’s mission rapidly expanded to include production and storage of pyrotechnic, riot control and chemical filled munitions. In the 1990s, PBA expanded its chemical defense mission and established a homeland security mission.

### Installation Overview

PBA occupies 13,500 acres and is the only active Army installation in the state of Arkansas. PBA actively maintains 675 buildings and 283 igloos with total real property of 3.7 million square feet. PBA has over 5,000 acres of pristine developable land.

### Contact Information

Pine Bluff Arsenal  
10020 Kabrich Circle  
Pine Bluff, AR 71602-9500  
870-540-3004 (COM), 966-3004 (DSN)

### Capabilities

PBA has existing capabilities for 102 commodities (64 ammunition and 38 chem/bio defense). Eighty-three of the items manufactured by PBA are currently not available from the private sector; 41 items are considered critical go-to-war and nine are chem/bio. PBA possesses a white phosphorus (WP) canister fill capability and is a supplier for WP fill in smoke munitions. PBA is noted for its development of unique pyrotechnics mixing technologies including facilities for red phosphorus mixing, extrusion and pressing, and 40mm colored smoke grenade production. PBA is the Army’s sole facility for rebuild and recertification of protective masks and for Defensive Chemical Test Equipment Services, for the manufacture of several large filters and of the M291 decontamination kit. PBA is the second site for the Chemical Defense Equipment Go-to-War field return and storage mission.

### Capabilities at a Glance

- Chemical defense and test equipment
- Individual and collective chemical protection and decontamination systems
- Chemical Material Surveillance Program
- Machining, fabrication and assembly
- Specialty and less-than-lethal ammunition production
- Quality assurance and joint logistics services



# RIA Joint Manufacturing & Technology Center\*

## Rock Island, Illinois



### Mission

To support the National Defense Strategy with world-class products and service through development/prototyping, manufacturing, integration, testing and logistics to serve the warfighter.

### History

Congress established Rock Island Arsenal in 1862. During the Civil War, the island served as a prison camp for the Confederate Soldiers. The Rock Island Arsenal (RIA) is the site of a National Cemetery for those who served their country. The construction of the first stone manufacturing shop began in 1866 and continued through 1893 when the last stone shop was finished. After WWI, RIA built the first American manufactured tank. The Rock Island Arsenal tradition continues today to strive to produce the best quality weapons and manufactured items for DoD while meeting the ever changing needs of today’s warfighters.

*\* This installation is expected to receive additional capabilities in accordance with BRAC 2005.*

### Installation Overview

RIA is located on a 946-acre island on the Mississippi river between Illinois and Iowa. RIA has over 1.5 million square feet of manufacturing space and one of the largest warehouse facilities with over 770,000 square feet under one roof with additional outside storage space.

### Contact Information

Rock Island Arsenal Joint Manufacturing & Technology Center  
Attention: AMSTA-RI-BDD  
1 Rock Island  
Rock Island, IL 61299-5000  
309-782-4252 (COM), 793-4252 (DSN)  
Storkj@ria.army.mil (Email)

### Capabilities

Rock Island Arsenal Joint Manufacturing & Technology Center (RIA-JMTC) is a full service, one-stop shop that will save customers’ time and money by eliminating the need to outsource services. The capabilities range from having a full-purpose foundry, fabrication and welding of various metals, heat treating, machining, painting and engineering. More than 200 Computer Numerically Controlled machines along with more than 950 conventional machines (with two of only 13 seven-axis machining centers in the world) give RIA-JMTC unique capabilities in the industrial world.

### Capabilities at a Glance

- Foundry
- Investment casting
- Forging
- Heat treating
- Machining
- Blasting
- Rubber and plastic molding
- Fabrication
- Welding
- Plating
- Painting
- Gage manufacturing
- Full staff engineering

### Partnerships

United Defense Limited Partnership- Opposing Forces Surrogate Vehicle, Opposing Forces Surrogate Tank Vehicle

# Watervliet Arsenal \*

## Watervliet, New York



### Mission

Provide manufacturing, engineering, procurement and product assurance for cannons, howitzers, mortars and associated armaments for weapon systems used by the U.S. Armed Forces.

### History

Watervliet Arsenal, the nation’s oldest continuously active arsenal, was founded in 1813 to support the War of 1812. After decades of producing gun shot, leather goods, wooden carriages and other materiel, the arsenal was chosen in 1887 as the site for a national cannon factory. Since then, Watervliet Arsenal has been the nation’s principal manufacturer of large caliber weapons.

*\* The capabilities of this installation will be impacted in accordance with BRAC 2005.*

### Installation Overview

The arsenal is located on 140 acres in the center of the City of Watervliet, N.Y. Located six miles north of New York’s capital at Albany, the arsenal has more than two million square feet of floor space, more than half of which is for industrial operations. In the 1980s, more than \$300 million was invested to upgrade buildings, processes and equipment making the arsenal one of the most modern manufacturing facilities in the northeast.

### Contact Information

Watervliet Arsenal  
ATTN: AMSTA-WV-XO-CO  
1 Buffington Street  
Watervliet, New York 12189-4000  
518-266-4294 (COM), 374-4294 (DSN)  
Kevin.R.Moore@us.army.mil (Email)

### Capabilities

Watervliet Arsenal is part of the Joint Manufacturing & Technology Center at Watervliet, a juxtaposition of manufacturing and research and development through Benét Laboratories that makes the arsenal a truly unique asset. Watervliet Arsenal is equipped with a variety of modern machining centers, mills, profilers, and lathes, providing the versatility to machine most any part configuration. More than 200 machines are computer-controlled, which enhances versatility. The arsenal’s specialty is large cylindrical, shaft designs. Several colonies of long-bed computer controlled lathes are capable of virtually any type of turning, boring, precision single-point threading and contouring.

### Capabilities at a Glance

- Metallurgy
- Rotary forging
- Heat treating
- Production and tool engineering
- Tool design and manufacturing
- High pressure cold working
- Machining
- Electronic maintenance and calibration

### Partnerships

- ABTP- Arsenal Support Program Initiative
- Hartchrom- Chrome Plating, Protective Coating Services
- General Dynamics Land Systems- Stryker
- Wil-Burt Company- Thin Foil Booms

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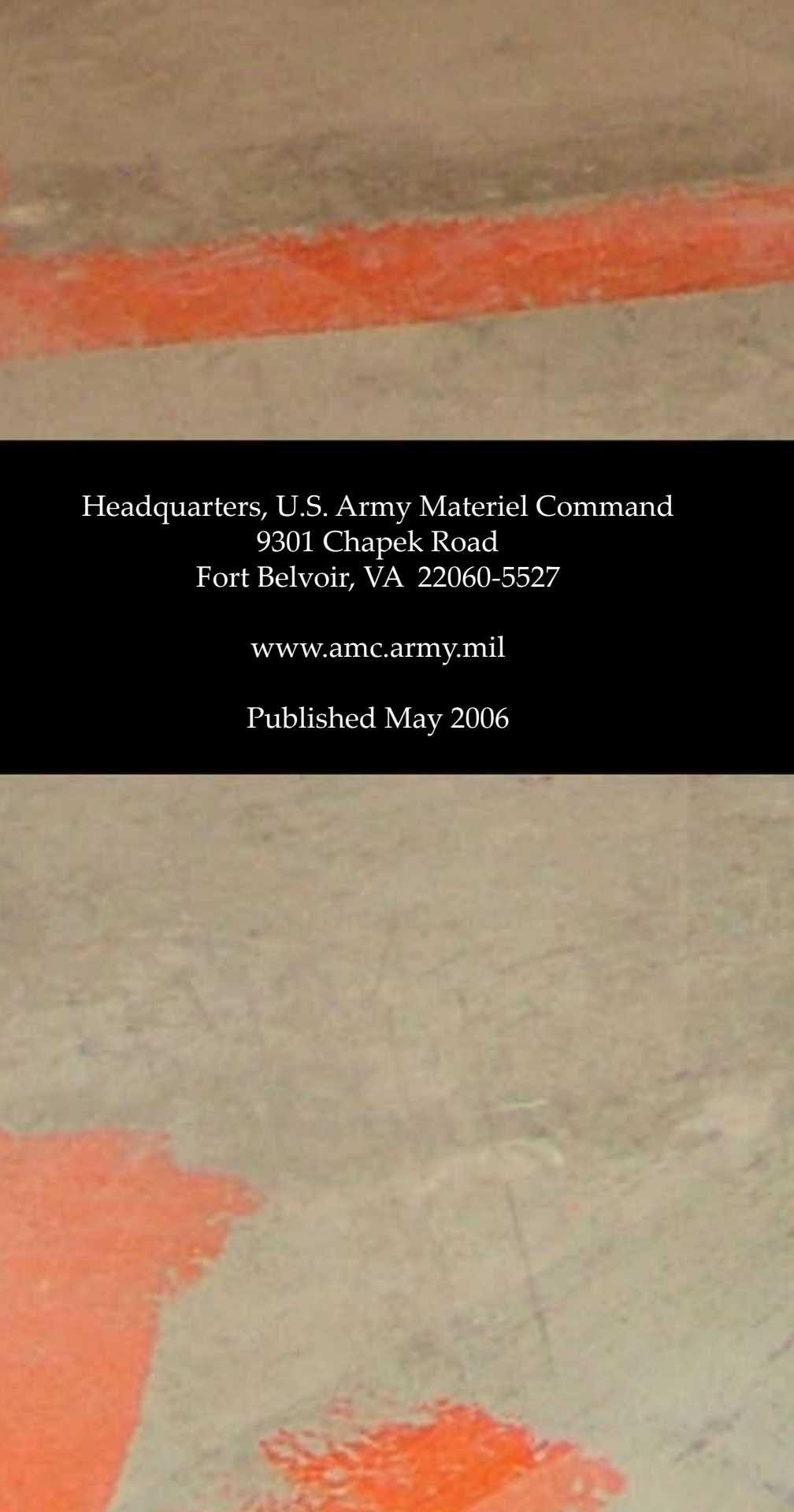
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